

This listing of claims will replace all prior versions, and listings, of claims in the application:

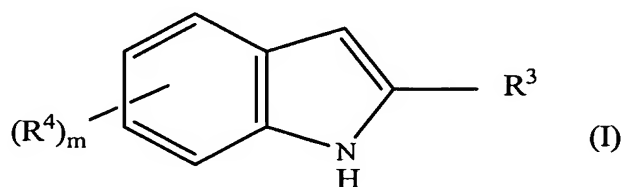
Listing of Claims:

1. (Currently Amended) A stabilizer system for stabilizing halogen-containing polymers against thermal degradation, comprising

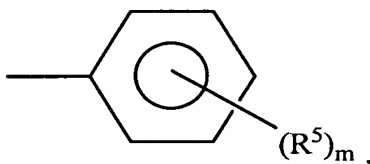
(a) at least one perfluoroalkanesulphonate salt and

(b) at least one or more indoles and/or ureas and/or alkanolamines and/or aminouracils,

wherein the indoles have the general formula (I)



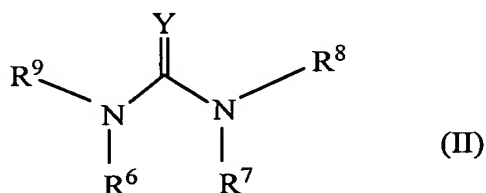
wherein m is 0, 1, 2 or 3; R<sup>3</sup> is C<sub>1</sub>-C<sub>18</sub> alkyl, C<sub>2</sub>-C<sub>18</sub> alkenyl, phenyl or



C<sub>7</sub>-C<sub>24</sub> alkylphenyl, C<sub>7</sub>-C<sub>10</sub> phenylalkyl or C<sub>1</sub>-C<sub>4</sub> alkoxy;

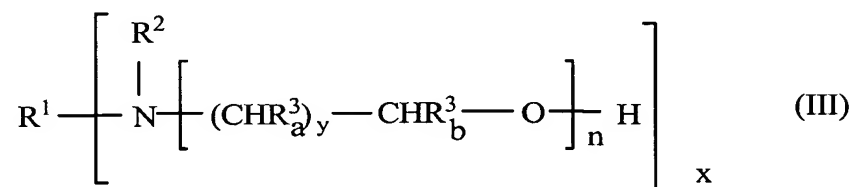
R<sup>4</sup> and R<sup>5</sup> are H, C<sub>1</sub>-C<sub>4</sub> alkyl, or C<sub>1</sub>-C<sub>4</sub> alkoxy;

wherein the ureas have the general formula (II)



wherein Y is O, S or NH; R<sup>6</sup>, R<sup>7</sup>, R<sup>8</sup> and R<sup>9</sup>, independently of one another, are H, C<sub>1</sub>-C<sub>18</sub> alkyl optionally substituted with hydroxyl groups and/or C<sub>1</sub>-C<sub>4</sub> alkoxy groups, C<sub>2</sub>-

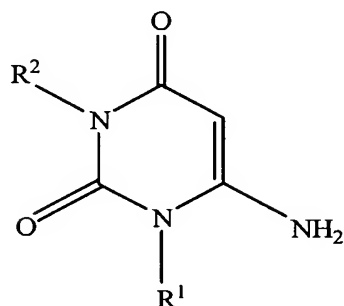
C<sub>18</sub> alkenyl, phenyl optionally substituted with up to 3 hydroxy and/or C<sub>1</sub>-C<sub>4</sub> alkyl/alkoxy groups, C<sub>7</sub>-C<sub>20</sub> alkylphenyl or C<sub>7</sub>-C<sub>10</sub> phenylalkyl, and 2-substituents selected from R<sup>6</sup> to R<sup>9</sup> may also form a ring, or a dimerized or trimerized urea thereof, and reaction products of these thereof, wherein the alkanolamines have the formula (III)



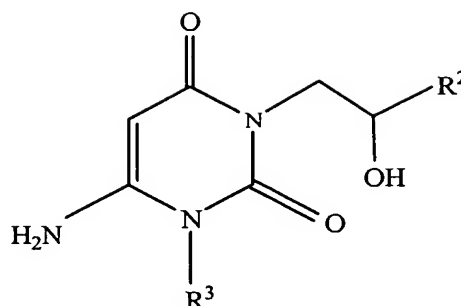
wherein x is 1, 2 or 3; y is 1, 2, 3, 4, 5 or 6; n is 1-10;

R<sup>1</sup> and R<sup>2</sup> independently of one another are H, C<sub>1</sub>-C<sub>22</sub> alkyl,  $[-(CHR^3_a)_y - CHR^3_b - O]_n - H$ ,  $[-(CHR^3_a)_y - CHR^3_b - O]_n - CO - R^4$ , C<sub>2</sub>-C<sub>20</sub> alkenyl, C<sub>2</sub>-C<sub>18</sub> acyl, C<sub>4</sub>-C<sub>8</sub> cycloalkyl, which may have OH substitution in the β-position, phenyl, C<sub>7</sub>-C<sub>10</sub> alkylphenyl or C<sub>7</sub>-C<sub>10</sub> phenylalkyl, or if x=1, R<sup>1</sup> and R<sup>2</sup> may also form, together with the N atom to which each is bonded to, a closed 4-10 membered ring of carbon atoms optionally containing up to 2 heteroatoms, or if x=2, R<sup>1</sup> may be C<sub>2</sub>-C<sub>18</sub> alkylene which may have OH substitution at the two β-carbon atoms and/or may have interruption by one or more O atoms and/or by one or more NR<sub>2</sub> groups, or may be a dihydroxy-substituted tetrahydrodicyclopentadienylene, dihydroxy substituted ethylcyclohexanylene, dihydroxy-substituted 4,4'-(bisphenol-A-dipropyl ether)ylene, isophoronylene, dimethylcyclohexanylene, dicyclohexylmethanylene or 3,3'-dimethyldicyclohexylmethanylene, or if x=3, R<sup>1</sup> may also be a trihydroxy-substituted (tri-N-propyl isocyanurate)triyl; R<sup>3</sup><sub>a</sub> and R<sup>3</sup><sub>b</sub> independently of one another are C<sub>1</sub>-C<sub>22</sub> alkyl, C<sub>2</sub>-C<sub>6</sub> alkenyl, phenyl, C<sub>6</sub>-C<sub>10</sub> alkylphenyl, H or CH<sub>2</sub>-X-R<sup>5</sup>, wherein X is O, S, -O-CO- or -CO-O-; R<sup>4</sup> is C<sub>1</sub>-C<sub>18</sub> alkyl, alkenyl or phenyl; and R<sup>5</sup> is H, C<sub>1</sub>-C<sub>22</sub> alkyl, C<sub>2</sub>-C<sub>22</sub> alkenyl, phenyl or C<sub>6</sub>-C<sub>10</sub> alkylphenyl,

and the aminouracils have the formula (IVa) or (IVb)



(IVa)



(IVb)

wherein in the case of (IVa)  $R^1$  and  $R^2$ , independently of one another, are H, ~~unsubstituted C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy- and/or hydroxyl-substituted phenyl, or are phenyl-C<sub>1</sub>-C<sub>4</sub> alkyl which is unsubstituted or has C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>1</sub>-C<sub>4</sub> alkoxy and/or hydroxyl substitution on the phenyl ring, C<sub>3</sub>-C<sub>6</sub> alkenyl, C<sub>5</sub>-C<sub>8</sub> cycloalkyl, or are C<sub>3</sub>-C<sub>10</sub> alkyl interrupted by at least one oxygen atom, or are CH<sub>2</sub>-CHOH- $R_3$ , wherein  $R_3$  is H, C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>2</sub>-C<sub>4</sub> alkenyl, C<sub>4</sub>-C<sub>8</sub> cycloalkyl, phenyl, C<sub>7</sub>-C<sub>10</sub> alkylphenyl or C<sub>7</sub>-C<sub>10</sub> phenylalkyl, and in the case of N- or N'-monosubstituted aminouracils  $R^1$  or  $R^2$  is C<sub>3</sub>-C<sub>22</sub> alkyl, with the proviso that  $R^1$  and  $R^2$  are not both hydrogen, and in the case of (IVb)  $R^2$  is H,, C<sub>1</sub>-C<sub>4</sub> alkyl, C<sub>2</sub>-C<sub>4</sub> alkenyl, C<sub>4</sub>-C<sub>8</sub> cycloalkyl, phenyl, C<sub>6</sub>-C<sub>10</sub> alkylphenyl, C<sub>7</sub>-C<sub>10</sub> phenylalkyl, -CH<sub>2</sub>-X- $R^4$ , wherein  $R^4$  is H, a C<sub>1</sub>-C<sub>10</sub> alkyl, a C<sub>2</sub>-C<sub>4</sub> alkenyl radical or C<sub>4</sub>-C<sub>8</sub>-cycloalkyl, where appropriate also containing an oxirane ring; or where appropriate substituted with from 1 to 3 C<sub>1</sub>-C<sub>4</sub> alkyl radicals, or with a benzoyl radical or a C<sub>2</sub>-C<sub>18</sub> acyl radical, and X is O or S;  $R^3=R^2$  or  $R^4$ ; C<sub>2</sub>-C<sub>6</sub> alkyl substituted with at least 1-5 OH groups and/or interrupted by at least 1 to a 4 O atoms, or is CH<sub>2</sub>-CH(OH) $R^2$ .~~

2. (Previously Presented) The stabilizer system according to Claim 1, wherein the perfluoroalkanesulphonate salt is a salt of a metal selected from the group consisting of Li, Na, K, Mg, Ca, Sr, Ba, Sn, Zn, Al, La and Ce.

3. (Currently Amended) The stabilizer system according to Claim 1, where in the compound having the general formula (I)  $R^3$  is phenyl, in the compound having the general formula (II),  $R^6$ ,  $R^7$ ,  $R^8$  and  $R^9$  independently are phenyl or H, in the compound having the general formula (III) n is 1 and y is 2 or 3, in the compound having the general formula (IVa)  $R^1$  and  $R^2$  independently are H, or  $C_2$ - $C_4$  alkenyl ~~or  $C_3$ - $C_{10}$  alkyl~~ and in the compound having the general formula (IVb)  $R^3$  is methyl or benzyl and  $R^2$  is  $C_2$ - $C_8$  alkyl,  $C_3$ - $C_6$  alkenyl or ( $C_1$ - $C_8$ -alkoxy)methyl.

4. (Previously Presented) The stabilizer system according to Claim 1, wherein the perfluoroalkanesulphonate salt is sodium triflate or potassium triflate.

5. (Currently Amended) The stabilizer system according to Claim 1, wherein the indoles of the general formula (I) are 2-phenylindole or 2-phenyllaurylindole, the ureas of the general formula (II) are N,N'-diphenylthiourea, N-phenylurea, trishydroxyethyl or trishydroxypropyl isocyanurate, the alkanolamines of the general formula (III) are reaction products of  $NH_3$ , or of primary or secondary amines, with ethane oxide, propene oxide, butane oxide or (thiol) glycidyl ethers or are reaction products of (thio)glycidyl ethers with alkanolamines, in the compounds of the general formula (IVa)  $R^1$  and  $R^2$  independently are H, or allyl, ~~propyl and or butyl~~, and in the compounds of the general formula (IVb)  $R^3$  is methyl and  $R^2$  is ethyl or allyloxymethyl.

6. (Previously Presented) The stabilizer system according to Claim 4, wherein at least one compound of the formula (IVa) is present and wherein  $R^1$  and  $R^2$  are  $C_1$ - $C_{22}$  alkoxy or oleyl, and this aminouracil may be partially or entirely replaced by a corresponding structurally isomeric cyanoacetylurea.

7. (Previously Presented) The stabilizer system according to Claim 1, further comprising metal soaps, polyols, disaccharide alcohols, glycidyl compounds, hydrotalcites, alkali metal/alkaline earth metal aluminosilicates, alkali metal/alkaline earth metal hydroxides, alkaline earth metal oxides, ~~or~~ alkaline earth metal (hydrogen) carbonates, ~~or~~ alkali metal (alkaline earth metal) hydroxycarboxylates or carboxylates, phosphates, plasticizers, antioxidants, fillers, pigments, light stabilizers, lubricants, epoxidized fatty esters and mixtures thereof.

8. (Previously Presented) The stabilizer system according to Claim 1, further comprising a phosphate.

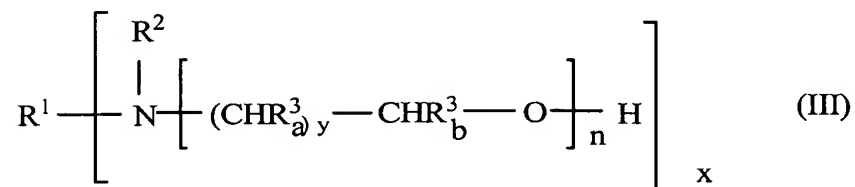
9. (Previously Presented) A composition comprising a chlorine-containing polymer and the stabilizer system according to Claim 1.

10. (Previously Presented) The composition according to Claim 9, comprising from 0.01 to 10 parts by weight of the compounds of the general formula (I) and/or (II) and/or (III) and/or (IVa) and/or (IVb) and from 0.001 to 5 parts by weight of the perfluoroalkanesulphonate salt based on 100 parts by weight of the chlorine-containing polymer.

11. (Previously Presented) A process for stabilizing a chlorine-containing polymer against thermal degradation, the process comprising adding the stabilizer system according to Claim 1 to the chlorine-containing polymer.

12. (Previously Presented) A consumer product comprising a polyvinyl chloride and the stabilizer system according to Claim 1.

13. (Previously Presented) The stabilizer system according to Claim 1, wherein component b is



for prestabilizing polyvinyl chloride against thermal induced degradation.

14. (Previously Presented) The composition according to Claim 9, wherein the chlorine-containing polymer is selected from the group consisting of a polymer of vinyl chloride, polymer of vinylidene chloride, polymer of a vinyl resin containing vinyl chloride units, copolymer of vinyl chloride with a diene compound and an unsaturated carboxylic acid or anhydride thereof, post chlorinated polymer or copolymer of vinyl chloride, copolymer of vinyl chloride and vinylidene chloride with an unsaturated aldehyde or ketone, polymer of vinyl chloroacetate and a dichlorodivinyl ether, chlorinated polymer of vinyl acetate, chlorinated polymeric ester of acrylic acid and an alpha-substituted acrylic acid, polymer of a chlorinated styrene, chlorinated rubber, chlorinated polymer of ethylene, polymer or post-chlorinated polymer of chlorobutadiene or a copolymer thereof with vinyl chloride or a chlorinated natural or synthetic rubber and mixtures thereof.

15. (Previously Presented) The process according to Claim 11, wherein the chlorine-containing polymer is selected from the group consisting of a polymer of vinyl chloride, polymer of vinylidene chloride, polymer of a vinyl resin containing

vinyl chloride units, copolymer of vinyl chloride with a diene compound and an unsaturated carboxylic acid or anhydride thereof, post chlorinated polymer or copolymer of vinyl chloride, copolymer of vinyl chloride and vinylidene chloride with an unsaturated aldehyde or ketone, polymer of vinyl chloroacetate and a dichlorodivinyl ether, chlorinated polymer of vinyl acetate, chlorinated polymeric ester of acrylic acid and an alpha-substituted acrylic acid, polymer of a chlorinated styrene, chlorinated rubber, chlorinated polymer of ethylene, polymer or post-chlorinated polymer of chlorobutadiene or a copolymer thereof with vinyl chloride or a chlorinated natural or synthetic rubber and mixtures thereof.